

Original document

MOS TRANSISTOR, SEMICONDUCTOR DEVICE AND THEIR MANUFACTURE

Patent number: JP8139315
Publication date: 1996-05-31
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Classification:
- international: H01L29/78; H01L21/265; H01L21/28; H01L21/8238; H01L27/092; H01L21/336
- european:
Application number: JP19940275095 19941109
Priority number(s):

Also published as:

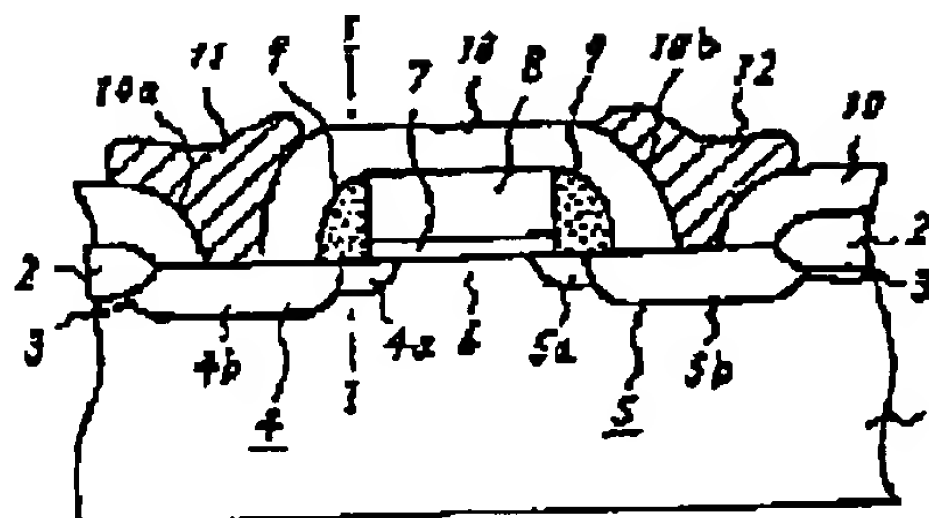
US5554871 (A1)
DE19524323 (A1)

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Abstract of JP8139315

PURPOSE: To obtain a MOS transistor with an improved hot carrier resistance.

CONSTITUTION: In a transistor having a side surface of a gate electrode 8, a side surface of a gate insulation film 7, and a sidewall 9 formed in contact with one principal plane of a semiconductor substrate 1, the sidewall 9 comprises an oxide film in which nitrogen has been introduced to provide the peak of concentration distribution in a section normal to the principal plane of the semiconductor substrate 1 at the interface with the principal plane of the semiconductor substrate 1.



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